

α1a Tubulin (h2): 293T Lysate: sc-171363

BACKGROUND

Tubulin is a major cytoskeleton component that has five distinct forms, designated α , β , γ , δ and ϵ Tubulin. α and β Tubulins form heterodimers which multimerize to form a microtubule filament. There are five β Tubulin isoforms ($\beta 1$, $\beta 2$, $\beta 3$, $\beta 4A$ and $\beta 4B$) that are expressed in mammalian tissues. $\beta 1$ and $\beta 4$ are present throughout the cytosol, $\beta 2$ is present in the nuclei and nucleoplasm, and $\beta 3$ is a neuron-specific cytoskeletal protein. γ Tubulin forms the gammaosome, which is required for nucleating microtubule filaments at the centrosome. Both δ Tubulin and ϵ Tubulin are associated with the centrosome. δ Tubulin is a homolog of the *Chlamydomonas* δ Tubulin Uni3 and is found in association with the centrioles, whereas ϵ Tubulin localizes to the pericentriolar material. ϵ Tubulin exhibits a cell cycle-specific pattern of localization; first associating with only the older of the centrosomes in a newly duplicated pair, and later associating with both centrosomes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TUBA3 (human) mapping to 12q13.12.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PRODUCT

$\alpha 1a$ Tubulin (h2): 293T Lysate represents a lysate of human $\alpha 1a$ Tubulin transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

$\alpha 1a$ Tubulin (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive $\alpha 1a$ Tubulin antibodies. Recommended use: 10-20 μ l per lane.

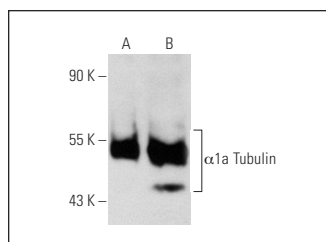
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

α Tubulin (6A204): sc-69969 is recommended as a positive control antibody for Western Blot analysis of enhanced human $\alpha 1a$ Tubulin expression in $\alpha 1a$ Tubulin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

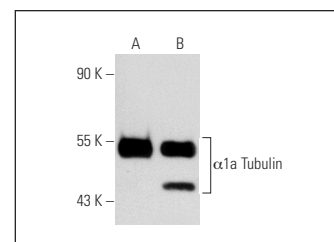
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



α Tubulin (6A204): sc-69969. Western blot analysis of $\alpha 1a$ Tubulin expression in non-transfected: sc-117752 (A) and human $\alpha 1a$ Tubulin transfected: sc-171363 (B) 293T whole cell lysates.



α Tubulin (DM1A): sc-32293. Western blot analysis of $\alpha 1a$ Tubulin expression in non-transfected: sc-117752 (A) and human $\alpha 1a$ Tubulin transfected: sc-171363 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.